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9 December 2002 (09.12.2002) US

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US

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9 December 2002 (09.12.2002)

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PEPTIDES AND METHODS FOR DEACTIVATION OF ORGANOPHOSPHORUS-BASED NERVE AGENTS AND INSECTICIDES

(57) Abstract: This invention provides methods and peptides for the inactivation of organophosphorus-based insecticides and chemical warfare agents. The instant methods include peptide screening methods, peptides and peptide libraries, related compositions of matter, articles of manufacture, and methods for prophylaxis, treatment, decontamination and detection.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/39207

A. CLASSIFICATION OF SUBJECT MATTER						
IPC(7) : G01N 33/53; C12Q 1/00, 1/42, 1/37						
US CL: 435/47.1, 4, 21, 23, 24, 968, 975; 424/570 According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SEARCHED  Minimum documentation searched (classification system followed by classification symbols)						
Minimum doc	sumentation searched (classification system followed by 15/47.1, 4, 21, 23, 24, 968, 975; 424/570	y classific	ation symbols)			
0.3 43	13/47.1, 4, 21, 23, 24, 366, 373, 4243.0					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic dat	ta base consulted during the international search (name	of data b	ase and, where practicable, sear	ch terms used)		
Please See Co	ontinuation Sheet					
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C. DOCUMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.			
х	US 5,843,758 (RUSSELL et al) 01 December 1998 (01.12.1998), see entire document.		8), see entire document.	1-11, 14-30		
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x	CHO et al, Applied & Environmental Micro., V. 68(4), pp 2026-2030, (April 2002).		1-11, 14-27			
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Further	documents are listed in the continuation of Box C.		See patent family annex.			
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"L" document	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	*Y"	document of particular relevance; the	claimed invention cannot be		
specified)			considered to involve an inventive ste combined with one or more other suc	p when the document is h documents, such combination		
"O" document	referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in the	ne art		
"P" document published prior to the international filing date but later than the		<b>-&amp;-</b>	document member of the same patent	family		
priority d	ate claimed					
Date of the a	ctual completion of the international search	Date of	mailing of the international sear	ch report		
20 March 20	05 (20.03.2005)	1	<b>04</b> APR 2000			
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Continuation of B. FIEL	DS SEARCHED Item 3:	t t t ttestinshion		
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### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/39207

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)				
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1. Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
2. Claim Nos.:  because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:				
Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows:				
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:				
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.				